

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Daniel Alvarez; Arjen Boers; Toerless Eckert; Ijsbrand Wijnands  
Assignee: Cisco Technology, Inc.  
Title: PIM SPARSE MODE TO SOURCE SPECIFIC MULTICAST CONVERSION

Application No.:	10/777,601	Filing Date:	February 12, 2004
Patent No.:	7,418,003	Issue Date:	August 26, 2008
Examiner:	Bob A. Phunkulh	Group Art Unit:	2661
Docket No.:	CIS0208US	Confirmation No.:	4921

Austin, Texas  
August 28, 2008

COMMISSIONER FOR PATENTS  
P. O. Box 1450  
Alexandria, VA 22313-1450

**REQUEST FOR ENTRY OF CERTIFICATE OF CORRECTION**

Sir:

Please enter the enclosed Certificate of Correction (PTO-Form 1050) in the above patent.

The errors sought to be corrected were made by:

- ☒ the Patent and Trademark Office. Thus, no fee is required for the Certificate of Correction pursuant to 37 CFR §1.322.
- ☐ Applicant(s) (at least in part). See next section for explanation. The appropriate fee under 37 CFR §1.323 has been authorized below.

**Please correct the following errors made by the USPTO:**

At Page 1, Item (73) after "Assignee", please delete "Cisco Systems, Inc., San Jose, CA (US)" and insert:

**(73) Assignee: Cisco Technology, Inc., San Jose, CA (US)**

In support of this Request, Applicants submit copies of the Issue Fee Transmittal (PTOL-85) as filed on July 22, 2008 and the Notice of Recordation of Assignment Document in which the application was assigned to Cisco Technology, Inc. recorded by the United States Patent and Trademark Office at Reel 014986, Frame 0034 on February 12, 2004.

In light of the foregoing Applicants further respectfully request that this file be forwarded to the Certificate of Correction Branch for issuance of a Certificate of Correction. Because this was not an error on the part of Applicants, Applicants believe no fee is required. However, the Commissioner is hereby authorized to charge any fee that may be required for this correction to Deposit Account No. 502306.

Please direct all inquiries concerning this request to the undersigned attorney at (512) 439-5092.

Respectfully submitted,



Shawn Doman  
Attorney for Applicants  
Reg. No. 60,362  
Telephone: (512) 439-5092  
Facsimile: (512) 439-5099

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,418,003 B1  
ISSUE DATE : August 26, 2008  
INVENTOR(S) : Daniel Alvarez, Arjen Boers, Toerless Eckert, Ijsbrand Wijnands

It is certified that error appears in the above-identified patent and that said Letters  
Patent is hereby corrected as shown below:

(73) Assignee: **Cisco Technology, Inc., San Jose, CA (US)**



## PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: **Mail**

**Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the **ISSUE FEE** and **PUBLICATION FEE** (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated on the correspondence below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEB ADDRESS" for maintenance fee notifications.

**CURRENT CORRESPONDENCE ADDRESS** (Note Use Block 1 for any change of address)

33031 7590 04/13/2003

**CAMPBELL STEPHENSON LLP**  
**11401 CENTURY OAKS TERRACE**  
**BLDG. H, SUITE 250**  
**AUSTIN, TX 78758**  
**07/23/2008 INTEFSM 00002903 10777601**

01 FC:1501 1440.00 DA  
 02 FC:8001 3.00 DA

**Note:** A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

Shawn Doman	(Depositor's name)
<i>[Signature]</i>	(Signature)
7/22/8	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10777,601	02/12/2004	David Alvarez	CIS0208US	4921

**TITLE OF INVENTION:** FIM SPARSE MODE TO SOURCE SPECIFIC MULTICAST CONVERSION

APPL. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	07/23/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
PHUNKULH, BOB A	2619	370-432000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.303).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Campbell Stephenson LLP

2 \_\_\_\_\_

3 \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

**PLEASE NOTE:** Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE  
**CISCO TECHNOLOGY, INC.**

(B) RESIDENCE (CITY AND STATE OR COUNTRY)  
**SAN JOSE, CALIFORNIA**

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

## 4a. The following fee(s) are submitted:

- ☒ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☒ Advance Order - # of Copies 1

## 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 502306 (enclose an extra copy of this form).

## 5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

**NOTE:** The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature *[Signature]*

Date 7/22/8

Typed or printed name Shawn Doman

Registration No. 60,362

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 13, 2004

PTAS

CAMPBELL STEPHENSON ASCOLESE LLP  
ERIC A. STEPHENSON  
4807 SPICEMOOD SPRINGS RD.  
BLDG. 4, SUITE 201  
AUSTIN, TX 78759



\*102674466A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/12/2004

REEL/FRAME: 014986/0034  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ALVAREZ, DANIEL

DOC DATE: 02/11/2004

ASSIGNOR:

BOERS, ARJEN

DOC DATE: 02/11/2004

ASSIGNOR:

ECKERT, TOERLESS

DOC DATE: 02/11/2004

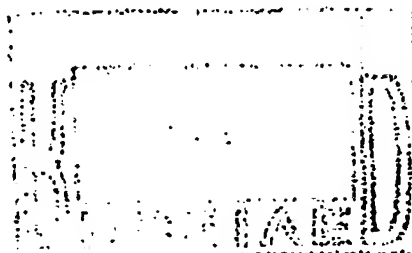
ASSIGNOR:

WIJNANDS, MISBRAND

DOC DATE: 02/11/2004

ASSIGNEE:

CISCO TECHNOLOGY, INC.  
170 W. TASMAN DRIVE  
SAN JOSE, CALIFORNIA 95134-1706



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014986/0034 PAGE 2

SERIAL NUMBER: 10777601

FILING DATE: 02/12/2004

PATENT NUMBER:

ISSUE DATE:

TITLE: PIM SPARSE MODE TO SOURCE SPECIFIC MULTICAST CONVERSION

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

02-23-2004

EET

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PATENT AND TRADE MARK OFFICE

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102674466

MARK OFFICE. PLEASE RECORD THE

## 1. Name of conveying party(ies):

Daniel Alvarez  
Arjen Boers  
Toerless Eckert  
Ijsbrand Wijnands

Additional name(s) of conveying party(ies) attached?

☐

Yes

☒

No

## 2. Name and address of receiving party(ies):

Name: Cisco Technology, Inc.

Street Address: 170 W. Tasman Drive

City: San Jose

California 95134-1706

Country: USA

## 3. Nature of Conveyance:

☒

Assignment

☐

Merger

☐

Security Agreement

☐

Change of Name

☐

Other:

Execution Date(s):

Daniel Alvarez signed on February 11, 2004

Arjen Boers signed on February 11, 2004.

Toerless Eckert signed on February 11, 2004.

Ijsbrand Wijnands signed on February 11, 2004.

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is:

Daniel Alvarez signed on February 11, 2004.

Arjen Boers signed on February 11, 2004.

Toerless Eckert signed on February 11, 2004.

Ijsbrand Wijnands signed on February 11, 2004.

## A. Patent Application No.(s) -

Title: PIM Sparse Mode to Source Specific Multicast Conversion

## B. Patent No.(s)

Additional numbers attached?

☐

Yes

☒

No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric A. Stephenson

Firm: CAMPBELL STEPHENSON ASCOLESE LLP

Address: 4807 Spicewood Springs Rd

Address: Bldg. 4, Suite 201

City: Austin

State: TX

Zip: 78759

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): \$40.00

☒

Authorized to be charged to Deposit Account 502305

☒

Charge Deposit Account 502306 for any additional fees required for this conveyance and credit deposit account 502305 any amounts overpaid

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## 8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

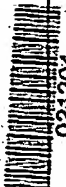
Eric A. Stephenson  
Name of Person Signing

39,321

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 1

22141 U.S. PTO  
10/777601

02:204

2-12-04

10777601

## ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

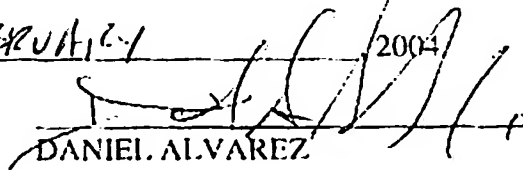
<u>DANIEL ALVAREZ</u>	of	<u>Pleasanton, California</u>
<u>ARJEN BOERS</u>	of	<u>Leuven, Belgium</u>
<u>TOERLESS ECKERT</u>	of	<u>Mountain View, California</u>
<u>JSBRAND WIJNANDS</u>	of	<u>Sitges, Spain</u>

hereby sell, assign and transfer to Cisco Technology, Inc., a California corporation, having a place of business at 170 W. Tasman Drive, San Jose, California, 95134-1706, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

### PIM SPARSE MODE TO SOURCE SPECIFIC MULTICAST CONVERSION

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

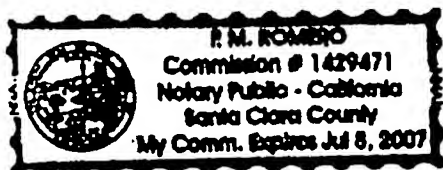
Executed this 11<sup>th</sup> day of FEBRUARY, 2004

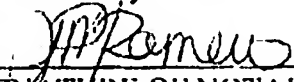
  
\_\_\_\_\_  
DANIEL ALVAREZ

State of California       )  
                                      ) ss.  
County of SANTA CLARA

On FEB 11<sup>th</sup>, 2004 before me, PM ROMERO  
personally appeared DANIEL ALVAREZ personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



  
\_\_\_\_\_  
SIGNATURE OF NOTARY



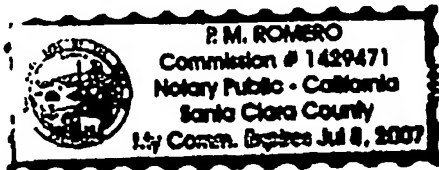
Executed this 11th day of February, 2004.

ARJEN BOERS

State of CALIFORNIA

County of SANTA CLARA

On FEB 11th, 2004 before me, PM ROMERO personally appeared ARJEN BOERS personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

PM Romero  
SIGNATURE OF NOTARY

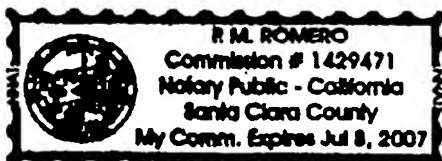
Executed this 11th day of February, 2004.

TOERLESS ECKERT

State of California )

County of SANTA CLARA

On FEB 11th, 2004 before me, PM ROMERO personally appeared TOERLESS ECKERT personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

PM Romero  
SIGNATURE OF NOTARY

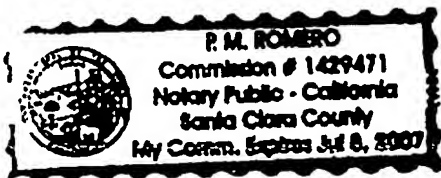
Executed this 11th day of FEBRUARY, 2004.

IJSBRAND WIJNANDS

State of California )

County of SANTA CLARA ss.

On FEB 11th, 2004 before me, PM ROMERO  
personally appeared IJSBRAND WIJNANDS ~~personally known to me or~~ proved to me on the  
basis of satisfactory evidence to be the person(s) whose name(s) ~~is(are)~~ subscribed to the within  
instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or  
the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

P. M. Romero  
SIGNATURE OF NOTARY